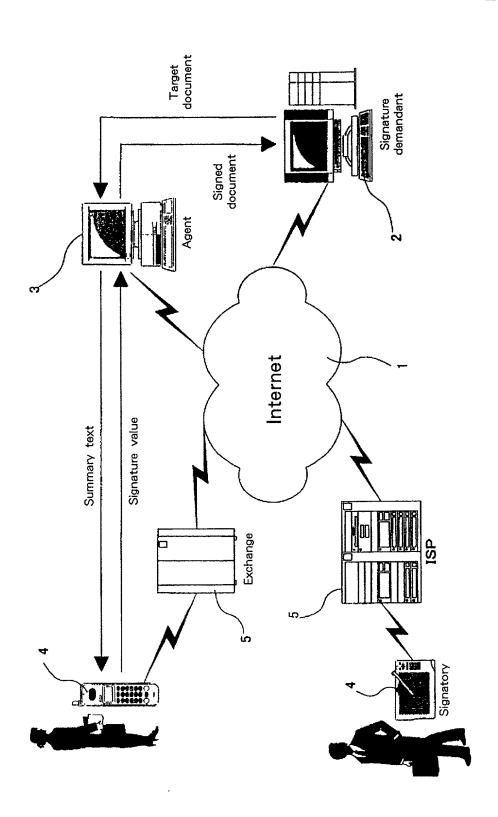
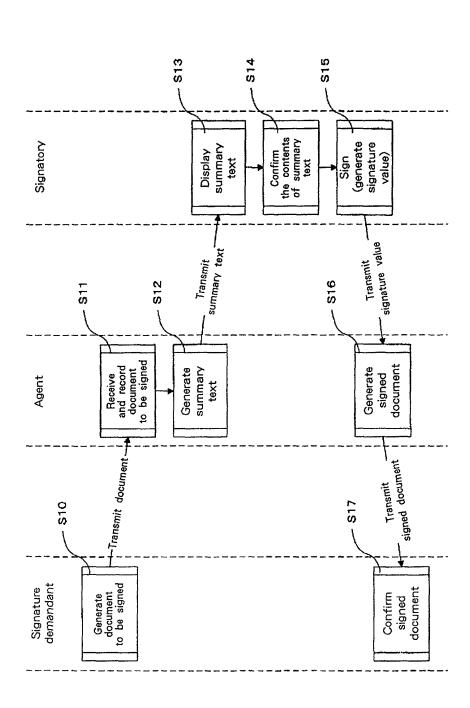
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Fig. 1







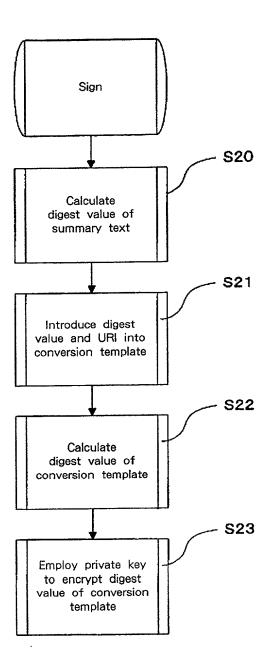


Fig. 3

```
<?xml version="1.0" encoding="UTF-8"?>
       1
                                                 (Invoice)
      23456789
                                                       <bookorder>
                                                                (item>
                                                                      <title>XML and Java</title>
<ISBN>0201485435</ISBN>
                                                                       <quantity>1</quantity>
                                                                       <price>39.95</price>
                                                               </item>
  10
                                                       </bookorder>
  11
                                                       <payment>
12
13
14
15
16
17
18
19
20
21
22
23
24
25
                                                               <payTo>AAAAA.com, Inc.</payTo>
                                                              \text{\lambda} \text{\text{billedTo} Hiroshi Maruyama} \text{\text{billedTo}} \\
\text{\text{\text{amount unit="USD">39.95 \/ amount \\
\text{\text{\text{\text{\text{dueDate}} Apr., 3, 2000 \/ dueDate} \\
\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{
                                                                       <creditCard>
                                                                                 <cardType>MasterCard</cardType>
                                                                                  <cardHolderName>Hiroshi Maruyama</cardHolderName>
                                                                                 <expirationDate>04/2001</expirationDate>
<cardNumber>5283 8304 6232 0010</cardNumber>
                                                                      </creditCard>
                                                               </paymentMethod>
                                                       </payment>
```

Fig. 4

```
1 I, Hiroshi Maruyama, will pay 39.95 USD
2 to AAAAA.com, Inc. by Apr., 3, 2000
3 for the purchase of 1 QTY of book titled
4 XML and Java.
```

```
Cn1:SignedInfo xmlns:n1="http://www.w3.org/2000/01/xmldsig/"
Cn1:CanonicalizationMethod xmlns:n1="http://www.w3.org/2000/01/xmldsig/"
Algorithm="http://www.w3.org/1R/1999/WD-xml-c14n-19991115"></n1:CanonicalizationMethod>
Cn1:SignatureMethod xmlns:n1="http://www.w3.org/2000/01/xmldsig/"
Algorithm="http://www.w3.org/2000/01/xmldsig/"
Algorithm="http://www.w3.org/2000/01/xmldsig/"
URL="96document to be signed UR196">
Cn1:Transform xmlns:n1="http://www.w3.org/2000/01/xmldsig/"
URL="96document to be signed UR196">
Cn1:Transform xmlns:n1="http://www.w3.org/2000/01/xmldsig/"
Algorithm="http://www.w3.org/2000/01/xmldsig/">
Cn1:Transform xmlns:n1="http://www.w3.org/2000/01/xmldsig/">
Cn1:Transform xmlns:n1="http://www.w3.org/2000/01/xmldsig/">
Concat("1, "/Invoice/payment/biledTo, ", will pay ", /Invoice/payment/amount, "", /Invoice/payment/ducDate, "for the purchase of ", /Invoice/payment/ducDate, "for the purchase of ", /Invoice/bookorder/item/quantity," CTY of book titled ", /Invoice/bookorder/item/title, "")
Cn1:Transform xmlns:n1="http://www.w3.org/2000/01/xmldsig/"
Algorithm="http://www.w3.org/2000/01/xmldsig/"
Algorithm="http://www.w3.org/2000/01/xmldsig/"
Algorithm="http://www.w3.org/2000/01/xmldsig/"
Algorithm="http://www.w3.org/2000/01/xmldsig/"
Algorithm="http://www.w3.org/2000/01/xmldsig/"
Algorithm="http://www.w3.org/2000/01/xmldsig/"
Algorithm="http://www.w3.org/2000/01/xmldsig/"
Algorithm="http://www.w3.org/2000/01/xmldsig/"
Algorithm="http://www.w3.org/2000/01/xmldsig/"
Algorithm="http://www.w3.org/2000/01/xmldsig/">
Cn1:DigastValue xmlns:n1="http://www.w3.org/2000/01/xmldsig/base64">
96 digast value of the summary text 96
C/n1:DigastValue>
C/n1:Diga
```

```
<?xml version="1.0" encoding="UTF-8"?>
<Signature xmlns="http://www.w3.org/2000/01/xmldsig/">
<SignadInfo>
                          CanonicalizationMethod Algorithm="http://www.w3.org/TR/1999/WD-xml-c14n-19991115"/>

SignatureMethod Algorithm="http://www.w3.org/2000/01/xmldsig/dsa"/>

Keference URI="http://www.myagent.com/myorder/2000/0321.xml">
  6
7
8
                              (Transforms)
                              10
11
12
13
14
15
16
                                 CTransform Algorithm="http://www.w3.org/TR/1999/WD-xml-c14n-19991115"/>
                              CDigestMethod Algorithm="http://www.w3.org/2000/01/xmldsig/sha1"/>
CDigestValue Encoding="http://www.w3.org/2000/01/xmldsig/base84">
KnkofqqssCINlew59DrhE6Hnrpk=
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
40
                               </DigestValue>
                        </Reference>
                        MCwCFBvOeJygByRVVHjM0YJ47qfkoDITAhRr8u90oIGcXrKz0uNIRJiQTYGRhw== (/SignatureValue)
                        <KeyInfo>
<X509Data>
                               <X509Name>CN=Hiroshi Maruyama, OU=TRL, O=IBM, C=JP</X509Name>
                    (X509Certificate)
MIICvTCCAnsCBDhZhc4wCwYHKoZlzjgEAwUAMEQxCzAJBgNVBAYTAkpQMQwwCgYDVQQKEwNJQk
                   MIICvTCCAnsCBDhZhc4wCwYHKoZlzjgEAwUAMEQxCzAJBgNVBAYTAkpQMQwwCgYDVQQKEwNJQk
0xDDAKBgNVBAsTA1RSTDEZMBcGA1UEAxMQSGlyb3NasBNYXJ1eWFtYTAeFw05OTEyMTcwMDM3
MzRaFwDwMDAzMTYwMDM3MzRaMEQxCzAJBgNVBAYTAkpQMQwwCgYDVQQKEwNJQk0xDDAKBgN
VBAsTA1RSTDEZMBcGA1UEAxMQSGlyb3NoasBNYXJ1eWFtYTCCADgwggEsBgcqhkjOOAQBMIIBHWK
BgQD9f10BHXUSKVLfSpwu70Tn9hG3UjzvRADDHj+AtlEmaUVdQCJR+1k9jVj8v8X1ujD2y5tVbNeBO4A
dNG/yZmC3a5lQpaSfn+gEexAiwk+7qdf+t8Yb+D1X58aophUPBPUD9tPFHsMCNVOTWhaRMyZ1864rYdcq
7/iiAxmd0UgBxwlVAJdgUl8VIwvMspK5gqLrhAxwWBz1AoGBAPfholXWmz3ey7yxDa4V715IK+7+jrqgvIXT
As9B4JnUVXj;rrUWU/mcQcQgYCOSRZxl+hMKBYTt88JMozlpuBBrnqLVHyNKOCjrh4rs8Z1kWfijmv6TTVi
8ftiegEk08yk8b6oUZOJqlPf4VrInwaSi2ZegHtVJWQBTDv+z0kqA4QFAAKBgQCE12KsJ2zPP0F+VuR4xGl
Q23ogU47HmOY4TEGrUCuYE9xjqo+Oh/7PtnKj/9+OmSNH1HDiY4GYh3KnjfwB7+2BmAwVLB0kkYZwdo
zb5aok7pj7UQliftgOp2b/08Fq4ZBDA483SrVwiCvuT3STQQykEyPw4wkXgjpwGb+NDfKUqCzALBgcqhkjO
OAQDBQADLwAwkLAUIZeGr8xv9/LwgNBFbr9lkSq2wy5QCFHJOnTNQgisZO161+O2ycivp0XHE
(/X509Certificate)
41
42
43
44
                           </X509Certificate>
</X509Data>
                        (/KeyInfo>
                      </signature>
```